

Severe local storms, March, 1931—Continued

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks	Authority
Knoxville, Tenn. (near).....	8					Snow.....	Minor property damage.....	Official, U. S. Weather Bureau.
Memphis, Tenn.....	8					High winds.....	Two boats blown from dock and sunk.....	Do.
Maryland (central part).....	8					do.....	Some buildings damaged, especially in Washington County.	Do.
Northport section of Long Island, N. Y.....	8				50,000	do.....	Summer homes and bathhouses damaged.....	Do.
Westchester County, N. Y.....	8					do.....	Thousands of dollars damage to houses, trees, signs, windows, and telephone and power lines.	Do.
Massachusetts, New Hampshire and Vermont.....	8-9					Snow and wind.....	Transportation crippled over large area.....	Do.
Eastern Shore, Virginia and Maryland.....	16-17				\$1,000,000	Heavy snow and high winds.....	Damage chiefly to overhead wires.....	Do.
Desdemona, Tex.....	19	7.45 p. m.	1,760			Wind and hail.....	Damage chiefly to oil derricks; gardens injured.	Do.
Clinton, Okla.....	19	p. m.		2	60,000	Tornado.....	Store and school annex demolished; 12 homes unroofed; a score of persons injured; path 3 blocks wide.	Washington News (D. C.).
Pensacola, Fla.....	21	a. m.				High wind.....	2 boats beached; sign boards blown down; windows broken.	Official, U. S. Weather Bureau
Colorado, Iowa, Kansas, Missouri, Nebraska, Oklahoma, Wisconsin, and Wyoming, parts of.	25-28			25		Blizzard.....	Highways and country roads impassable; thousands of cattle killed; great loss of sheep and hogs; trains delayed; 5 children died in school bus stalled near Towner, Colo., on the 27th; scattered deaths elsewhere.	Do.
Kerr, Kendall, and Blanco Counties, Tex.....	27	12.15 a. m.—1 a. m.	15 mi.		10,000	Hail.....	Considerable damage to crops, gardens, and buildings; some loss of livestock.	Do.
Jacksonville, Fla.....	28					Wind squall.....	Considerable damage to trees and hanging signs; small pleasure yacht damaged dock and boat slips.	Do.
Macedonia, Fla. (near).....	28	4-5 p. m.				Wind.....	Small buildings unroofed; trees uprooted....	Do.
Mulberry to Winter Haven, Fla.....	31	9.30 a. m.—10.30 a. m.	100		50,000	Tornado.....	A number of residences damaged, 1 completely demolished; considerable injury to groves; several persons injured; path 20 miles long.	Do.
Indian River City, Fla.....	31	11.30 p. m.			2,000	Wind.....	1 residence, several garages, and a water tank damaged.	Do.
Talbot, Meriwether, and Upson Counties, Ga.....	31				30,000	Series of severe hailstorms.	Damage almost entirely to peach trees; 4 persons injured.	Do.
Alabama (central and southern counties).....	31			1		Hailstorms and 2 tornadoes.	Considerable damage to farm buildings and other property in Coffee and Elmore Counties by tornadoes; damage by hail in Clinton County.	Do.

¹ Mi. signifies miles instead of yards.

RIVERS AND FLOODS

By MONTROSE W. HAYES

Floods in March were of minor consequence. The few rivers that overflowed were out of banks for a very short time and no high stages were reached.

During the week beginning March 22 the temperatures were in the fifties and snow melted rapidly over the upper part of the Susquehanna Basin, in New York. Rain late in the week further augmented the melting and the Chenango and Tioughnioga Rivers and smaller streams ran bankful. Some highways along the Tioughnioga were flooded, and a man was drowned, due to the overturning of a canoe by the swift current, at Blodgett's Mills, near Cortland, N. Y. There was no other flooding in the Atlantic Seaboard drainage.

The St. Francis River, in southeast Missouri and northeast Arkansas, and the Black River, in northeast Arkansas, were out of their banks in the second week of the month, but the overflow was slight and the damage was almost negligible.

The Sulphur River, a tributary of the Red, was in very moderate flood twice. The rises were rapid and there was a total loss of about \$12,000 in livestock, and about an equal saving made possible by the flood warnings.

In the Trinity River, in Texas, there were slight overflows during the first half of the month. The damage was confined to levees under construction.

Some of the rivers of Washington and Oregon were in flood on March 31. These floods will be considered in the April, 1931, MONTHLY WEATHER REVIEW.

The following reports from officials in charge of Weather Bureau offices are considered of interest:

Cairo, Ill.—Ohio River dams in this district were lowered on February 14, except No. 52, which remained up till February 17. The dams had been up since the last week in May, 1930. They were originally intended as an aid to navigation in the summer and autumn low-water periods, but the prolonged drought made necessary their operation through the winter.

New Orleans, La.—The Mississippi and Atchafalaya Rivers were unusually low for the season. Lower stages have been recorded, notably in the first half of March, 1895, but the absence of any material rise in March, 1931, gave an average stage of 3.1 feet on the Carrollton (New Orleans) gage, which is lower than any previous average stage for the month.

Table of flood stages in March, 1931

River and station	Flood stage	Above flood stages—dates		Crest	
		From—	To—	Stage	Date
ATLANTIC DRAINAGE					
Chenango: Sherburne, N. Y.....	<i>Feet</i> 8	29	29	<i>Feet</i> 8.1	29
MISSISSIPPI DRAINAGE					
St. Francis:					
Chaonia, Mo.....	22	8	9	23.8	9
Fisk, Mo.....	20	9	12	23.2	10
St. Francis, Ark.....	18	13	17	19.4	15
Black: Black Rock, Ark.....	14	8	12	17.5	9
Sulphur: Ringo Crossing, Tex.....	20	{ 3 28	5 28	24.0 22.0	3 28
WEST GULF DRAINAGE					
Trinity:					
Dallas, Tex.....	28	{ 1 8	5 9	31.8 28.7	3 8
Trinidad, Tex.....	28	6	10	29.5	8-9
PACIFIC DRAINAGE					
North Santiam: Mehama, Oreg.....	15	31	(1)	15.5	-----
Santiam: Jefferson, Oreg.....	10	31	(1)	15.5	-----
Willamette: Harrisburg, Oreg.....	10	31	(1)	10.6	-----

¹ Flood continued into April.